

Abstract

A refrigerator circuit (110) and a freezing circuit (30) are connected to an outdoor circuit (40) in parallel in a refrigerant circuit (20), and a freezer circuit (130) and a booster circuit (140) are connected in series in the freezing circuit (30). The booster circuit (140) includes a booster compressor (141) and three-way switching mechanisms (142, 160). During cooling operation of a freezing heat exchanger (131), first operation is performed in the three-way switching mechanisms (142, 160) so that the refrigerant evaporated in the freezing heat exchanger (131) is compressed in the booster compressor (141) and is sucked into a variable capacity compressor (41). During defrosting of the freezing heat exchanger (131), second operation is performed in the three-way switching mechanisms (142, 160) so that the refrigerant evaporated in the refrigeration heat exchanger (111) is compressed in the booster compressor (141), is supplied to the freezing heat exchanger (131), and then, is sent back to the refrigeration heat exchanger (111).